

## AS Level Mathematics A

### H230/02 Pure Mathematics and Mechanics

Printed Answer Booklet

## Date – Morning/Afternoon

Time allowed: 1 hour 30 minutes

**You must have:**

- Question Paper H230/02 (inserted)

**You may use:**

- a scientific or graphical calculator



First name										
Last name										
Centre number						Candidate number				

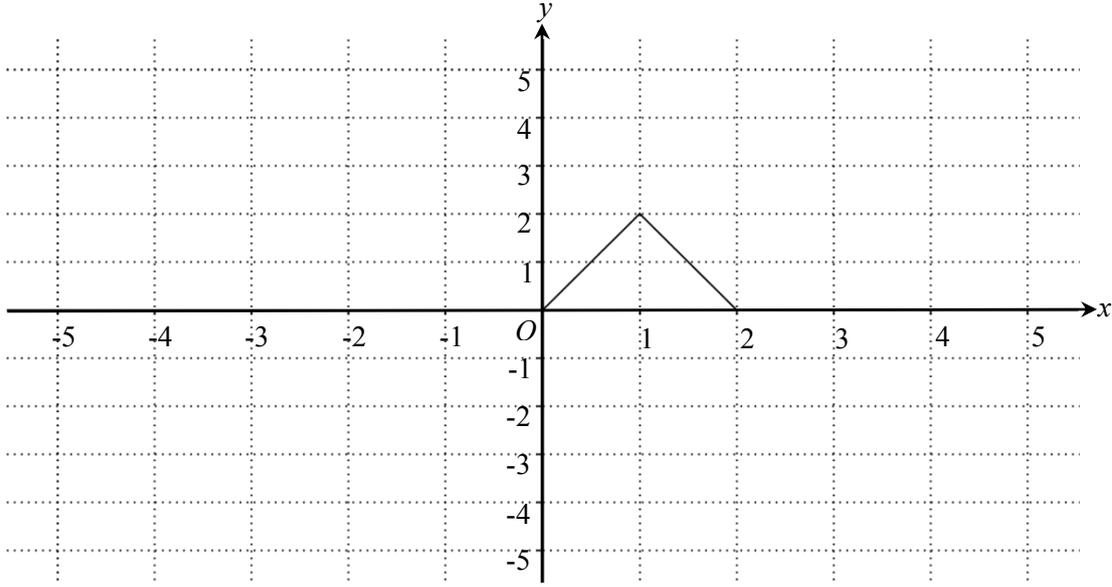
### INSTRUCTIONS

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer all the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Give non-exact numerical answers correct to 3 significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by  $g \text{ m s}^{-2}$ . Unless otherwise instructed, when a numerical value is needed, use  $g = 9.8$ .

### INFORMATION

- **You are reminded of the need for clear presentation in your answers.**
- The Printed Answer Booklet consists of **12** pages. The Question Paper consists of **8** pages.

Section A: Pure Mathematics

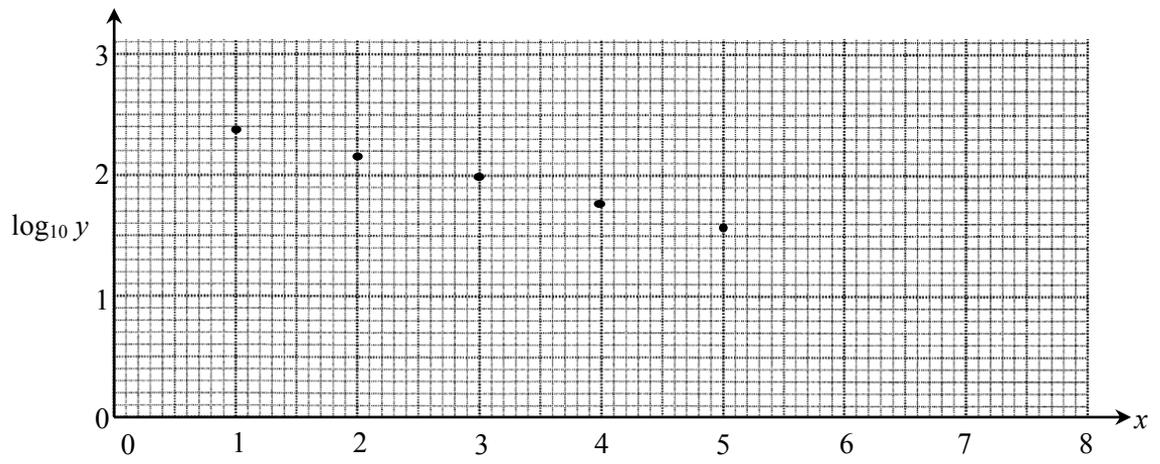
<p><b>1(a)(i)</b></p>	
<p><b>1(a)(ii)</b></p>	
<p><b>1(b)(i)</b></p>	
<p><b>1(b)(ii)</b></p>	



<b>3(a)</b>	
<b>3(b)</b>	
<b>3(c)</b>	
<b>3(d)</b>	

<b>4(a)</b>	
<b>4(b)</b>	
<b>5(a)</b>	

5(b)



5(c)

<b>6(a)</b>	

<b>6(b)</b>	

<b>7</b>	

8	

Section B: Mechanics

<b>9(a)</b>	
<b>9(b)</b>	
<b>10(a)</b>	

<b>10(b)</b>	
<b>10(c)</b>	
<b>10(d)</b>	
<b>11(a)</b>	

<b>11(b)</b>	
<b>11(c)</b>	

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